

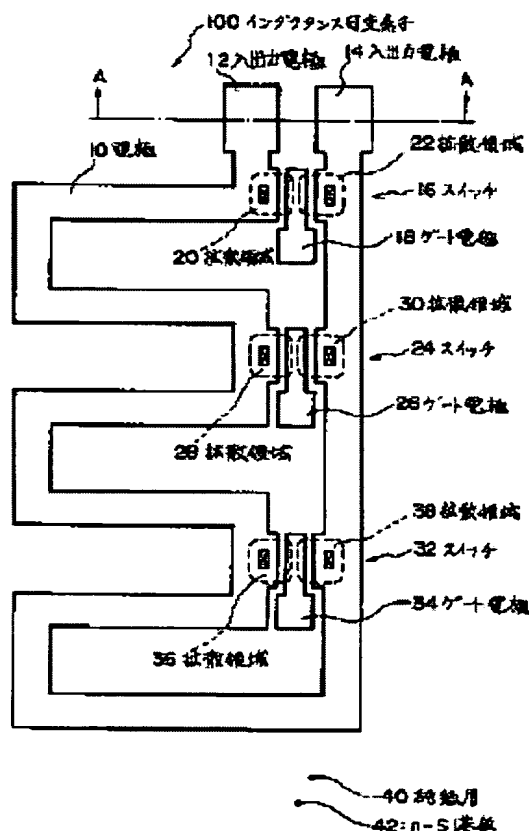
VARIABLE INDUCTANCE ELEMENT

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 - international: H01F21/12; H01F17/00
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Abstract of JP8045744

PURPOSE: To provide a variable inductance element, which can modify its inductance by a control from the outside, is simple in manufacture and can be formed integrally with a semiconductor component, such as an integrated circuit.

CONSTITUTION: A variable inductance element 100 comprises a meandering electrode 10 formed on the surface of an n-type Si substrate 42 via an insulating layer 40 and switches 16, 24, and 32 for short-circuiting partially this electrode 10, and both ends of the electrode 10 are formed into input/output electrodes 12 and 14 having a wide form. When only one out of the switches 16, 24 and 32 is turned on, the variable inductance element 100 functions as an inductor having an inductance smaller than that of an inductor being constituted of the whole electrode 10.



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